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# **Zapco Z-150.4 SP**

# Zapco Z-150.4SP 4-Channel 550W RMS Super Power Class AB Amplifier User Manual

Model: Z-150.4 SP

### 1. Introduction

This manual provides essential information for the installation, operation, and maintenance of your Zapco Z-150.4SP 4-Channel 550W RMS Super Power Class AB Amplifier. Please read this manual thoroughly before attempting to install or operate the amplifier to ensure proper function and safety. This amplifier is designed for high-performance car audio systems, delivering robust power and precise sound control.

#### 2. FEATURES

The Zapco Z-150.4SP amplifier incorporates advanced design and technology to provide superior audio performance. Key features include:

- 4-Channel Street Power competition amplifier
- Wide range dual crossovers allowing band-pass filtering
- Variable bass boost
- · Variable subsonic filter
- · Ducted Air fan cooling system
- Space-age technology for cooler output devices
- · Proprietary gold panel mount RCA Connectors

#### 3. SETUP AND INSTALLATION

Proper installation is crucial for optimal performance and safety. It is recommended that installation be performed by a qualified professional.

#### 3.1. Mounting the Amplifier

Choose a secure, well-ventilated location for mounting the amplifier. Ensure there is adequate airflow around the unit, especially for the ducted air fan cooling system. Avoid mounting in direct sunlight or areas prone to excessive heat or moisture.



Figure 1: Front view of the Zapco Z-150.4SP amplifier, showcasing its sleek design and branding.

# 3.2. Power Connections

Connect the amplifier to the vehicle's electrical system. Ensure proper gauge wiring is used for power (+12V), ground (GND), and remote turn-on (REM) connections. A fuse or circuit breaker should be installed on the +12V line close to the battery.



Figure 2: Rear view of the amplifier, detailing the power input terminals for +12V, REM (remote turn-on), and GND (ground).

# 3.3. Audio Input and Output Connections

Connect your audio source (e.g., head unit) to the amplifier's RCA input jacks. Connect your speakers to the amplifier's speaker output terminals, observing correct polarity.



Figure 3: Top view of the amplifier's control panel, showing RCA inputs, gain controls, crossover settings (HPF, LPF, FULL), bass boost, and output terminals.

# 4. OPERATING THE AMPLIFIER

Once installed, the amplifier can be configured for optimal sound. Refer to Figure 3 for control locations.

# 4.1. Gain Adjustment

The gain controls (CH1/CH2 and CH3/CH4) match the amplifier's input sensitivity to the output voltage of your head unit. Start with the gain set to minimum and slowly increase it until the desired volume is achieved without distortion.

# 4.2. Crossover Settings

The amplifier features wide-range dual crossovers. You can select High-Pass Filter (HPF), Low-Pass Filter (LPF), or FULL range for each channel pair. Adjust the frequency knobs to tailor the sound to your speakers and system configuration. Band-pass filtering can be achieved by combining HPF and LPF settings.

#### 4.3. Bass Boost and Subsonic Filter

Use the variable bass boost to enhance low-frequency output. The variable subsonic filter helps protect

subwoofers by removing ultra-low frequencies that are inaudible but can cause damage.

# 5. MAINTENANCE

The Zapco Z-150.4SP amplifier is designed for long-term reliability with minimal maintenance. To ensure its longevity and performance:

- Keep the amplifier clean and free of dust and debris. Use a soft, dry cloth for cleaning.
- Ensure proper ventilation. Do not block the cooling fins or the ducted air fan system.
- Regularly check all wiring connections for tightness and corrosion. Loose connections can lead to poor performance or damage.
- Avoid exposing the amplifier to extreme temperatures or moisture.

# 6. TROUBLESHOOTING

If you experience issues with your amplifier, refer to the following common problems and solutions before seeking professional assistance.

Problem	Possible Cause	Solution
No Power / Amplifier Not Turning On	Blown fuse, loose power/ground/remote wire, faulty remote turn-on signal.	Check and replace fuse. Verify all power, ground, and remote connections are secure. Ensure head unit is sending a remote signal.
No Sound Output	Loose RCA cables, incorrect gain settings, speaker wires disconnected, amplifier in protection mode.	Check RCA connections. Adjust gain. Verify speaker wire connections and polarity. Check for short circuits in speaker wiring.
Distorted Sound	Gain set too high, poor ground connection, damaged speakers, incorrect crossover settings.	Reduce gain. Ensure a solid ground connection. Inspect speakers for damage. Adjust crossover settings.
Amplifier Overheating	Insufficient ventilation, impedance too low, prolonged high-volume operation.	Ensure proper airflow around the amplifier. Check speaker impedance. Reduce volume or allow amplifier to cool down.

# 7. SPECIFICATIONS

The following are the technical specifications for the Zapco Z-150.4SP amplifier:

Characteristic	Value
Power @ $4\Omega$	4 x 165 watts RMS
Power @ 2Ω	4 x 275 watts RMS
Power @ 4Ω Bridged	2 x 550 watts RMS
THD @ Rated Power	<0.05%

Characteristic	Value
Signal to Noise Ratio	> 104dB
Channel Separation	> 60dB
Frequency Response	10Hz to 30,000Hz ±1dB
Input Sensitivity	0.25v to 8v
Dimension (W x H x L)	9.48" W x 2.44" H x 17.48" L
Overall Dimension (W x H x L)	9.48" W x 2.44" H x 18.85" L
Product Weight	14.45 Pounds
Mounting Type	Surface Mount

# 8. WARRANTY AND SUPPORT

Specific warranty details for the Zapco Z-150.4SP amplifier are not provided in this manual. For warranty information, technical support, or service inquiries, please contact Zapco directly or refer to the official Zapco website. Keep your proof of purchase for warranty claims.

For further assistance, you may visit the Zapco Store on Amazon.

#### Related Documents - Z-150.4 SP



#### Zapco Z-AP Series Amplifier Owner's Manual

Comprehensive owner's manual for the Zapco Z-AP Series of audiophile amplifiers, detailing installation, wiring, features, and technical specifications.



#### Zapco Z-AP Series Audiophile Amplifier Owner's Manual

Comprehensive owner's manual for the Zapco Z-AP Series of audiophile amplifiers, covering installation, power connections, wiring, technical specifications, and safety guidelines.



#### Zapco ST-A1 Owner's Manual: High-Fidelity Car Amplifier

Explore the Zapco ST-A1, a compact and powerful Class-AB car amplifier designed for Android units. This manual covers features, installation, mounting, and specifications for optimal audio performance.



#### Zapco Z-CB 100F Super Capacitor Bank Owner's Manual | Installation & Specifications

This owner's manual for the Zapco Z-CB 100F Super Capacitor Bank provides detailed instructions on installation, power connections, charging, wire sizing, and technical specifications for enhancing car audio systems.



#### Zapco Z-PS Series P100A Power Supply Owner's Manual

Comprehensive owner's manual for the Zapco Z-PS Series P100A AC-DC power supplies, detailing features, safety instructions, connection guides, operation notes, and technical specifications for Z-PS110B and Z-PS220I models.



#### ZAPCO Reference Digital Series Car Audio Amplifiers: Manual and Specifications

Explore the ZAPCO Reference Digital Series car audio amplifiers, featuring advanced DSP, SymbiLink™ technology, and Intelligent Rail Voltage Control for superior sound quality and performance. This guide includes installation, specifications, and technical details for models like DC200.2, DC350.2, and more.